

000227 0485E/50

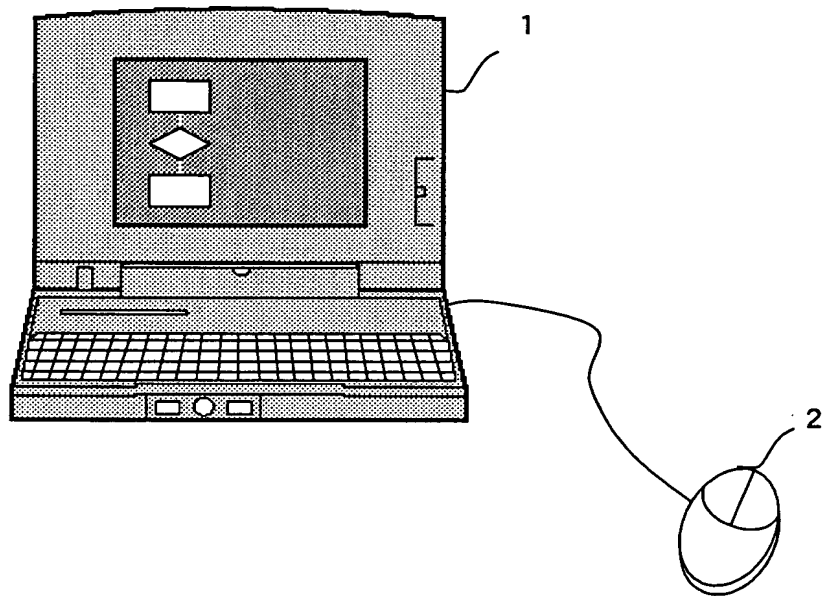


FIG. 2

FIG. 3A

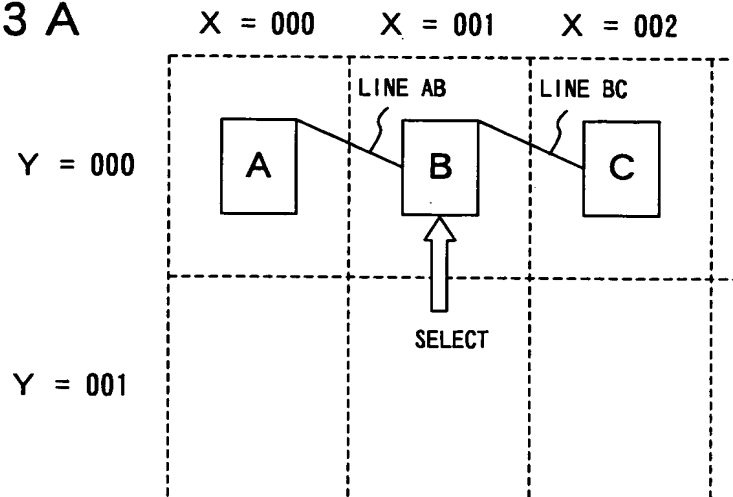


FIG. 3B

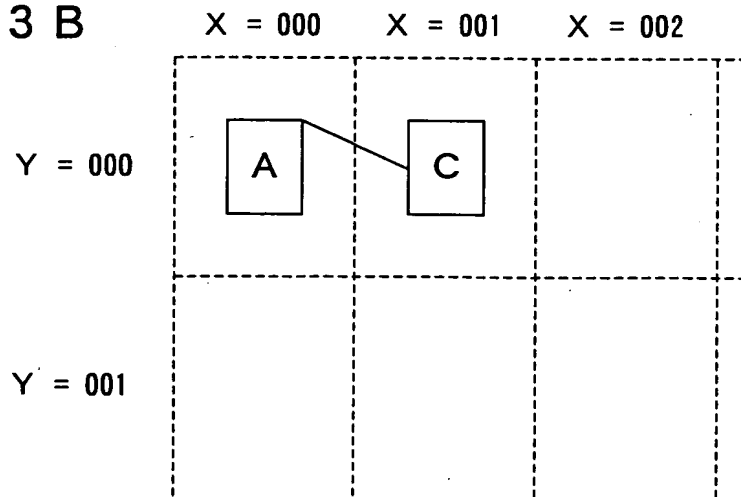


FIG. 4A

ARRAY 1	11		
	01	DISPLAY INFORMATION	POSITION INFORMATION
	02	A	101
	03	B	102
		C	103
			↑
			VALUE IN ARRAY 4

FIG. 4B

ARRAY 2	12		
	11	FRONT INFORMATION	REAR INFORMATION
	12	01	02
		02	03
		↑	↑
		VALUE IN ARRAY 1	VALUE IN ARRAY 1

FIG. 4C

ARRAY 4	13			
	101	NAME OF DATA	PRECEDING INFORMATION	X-COORDINATE
	102	a	a	000
	103	b	b	001
		c		002
				000
				000
				000

FIG. 5A

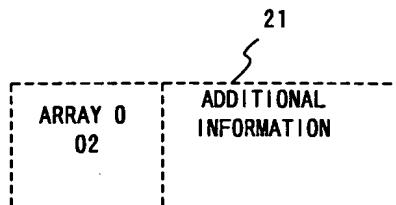


FIG. 5B

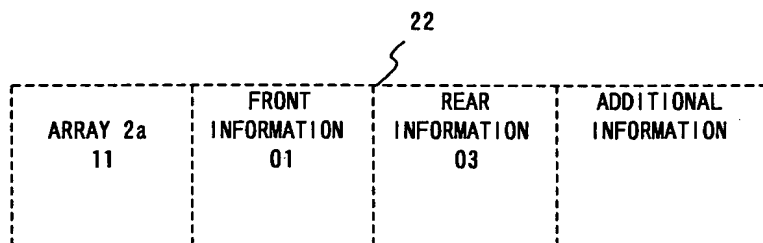


FIG. 5C

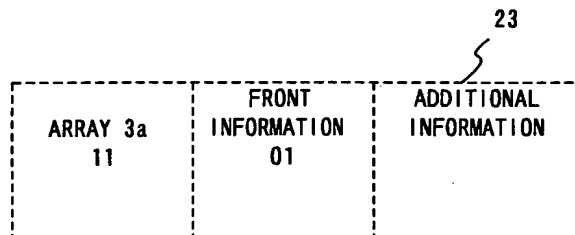
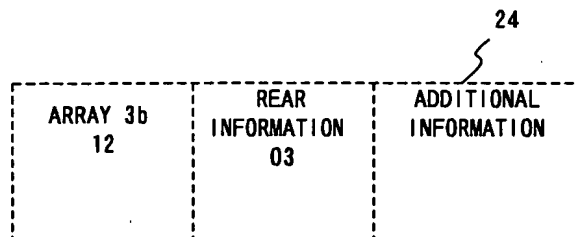


FIG. 5D



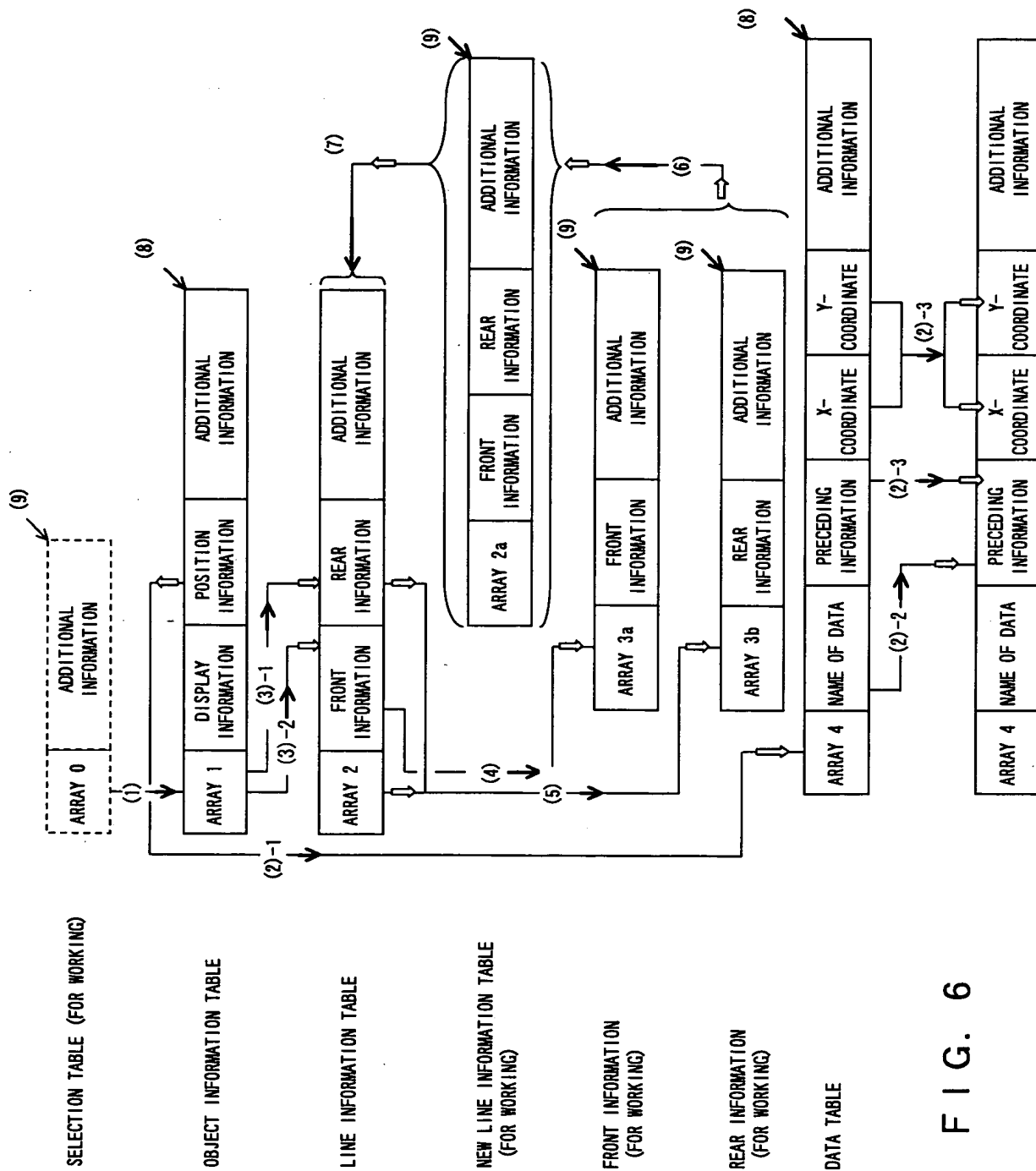


FIG. 7A

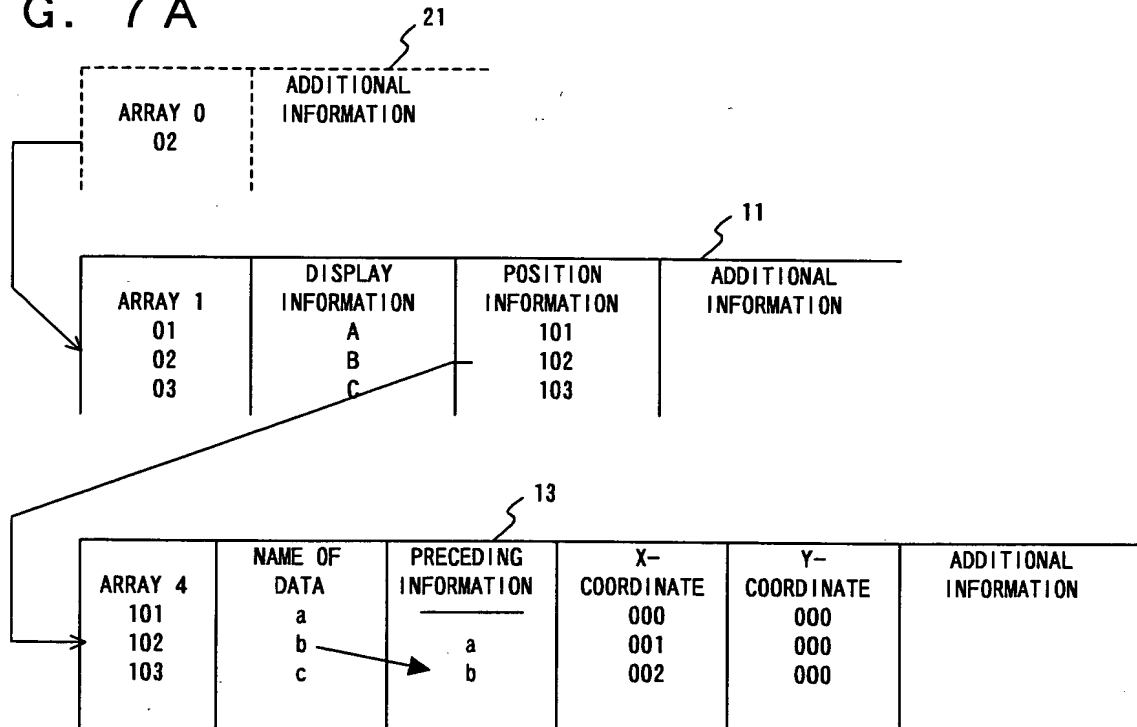
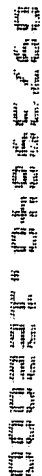
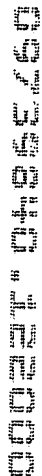


FIG. 7B

13

ARRAY 4	NAME OF DATA	PRECEDING INFORMATION	X-COORDINATE	Y-COORDINATE	ADDITIONAL INFORMATION
101	a		000	000	
102	b	a ↓	001 ↓	000	
103	c	a ↓	001 ↓	000	

THE

[illegible]

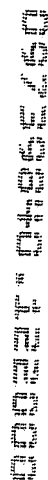
[illegible]

FIG. 9B

The diagram illustrates a data structure transformation. It features a horizontal table with four columns: **ARRAY 2**, **FRONT INFORMATION**, **REAR INFORMATION**, and **ADDITIONAL INFORMATION**. The data values are as follows:

ARRAY 2	FRONT INFORMATION	REAR INFORMATION	ADDITIONAL INFORMATION
11	01	03	
12	02	03	

A vertical arrow points from the horizontal table to a vertical table, indicating a transformation or mapping. The vertical table has the same four columns, with the data values arranged vertically:

ARRAY 2	FRONT INFORMATION	REAR INFORMATION	ADDITIONAL INFORMATION
11	01	03	
12	02	03	

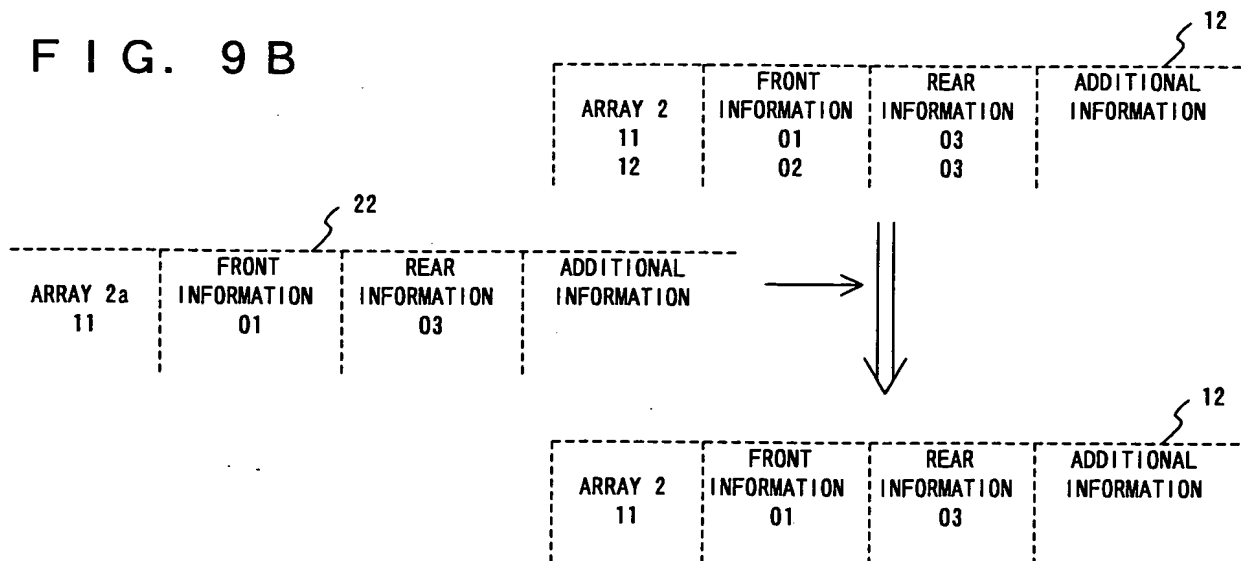


FIG. 10A

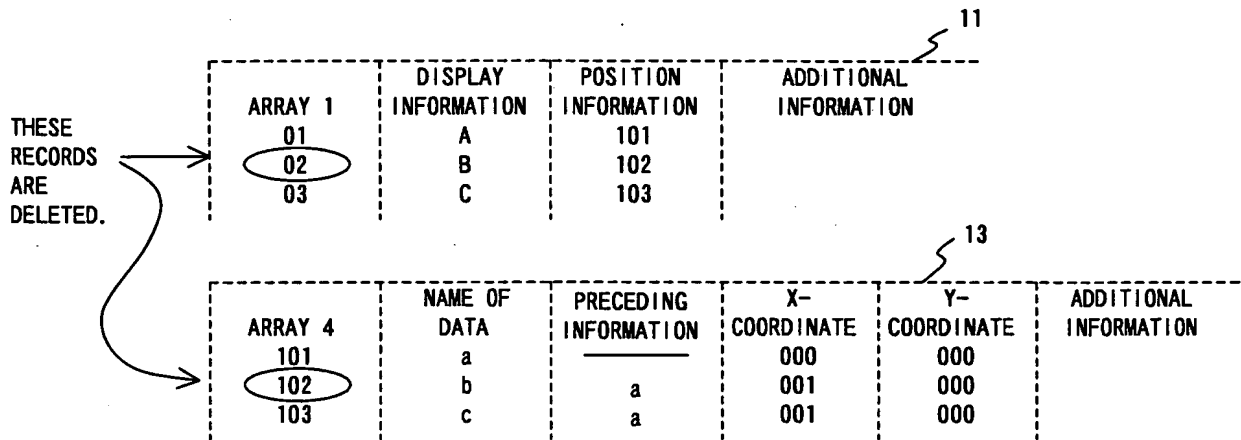


FIG. 10B

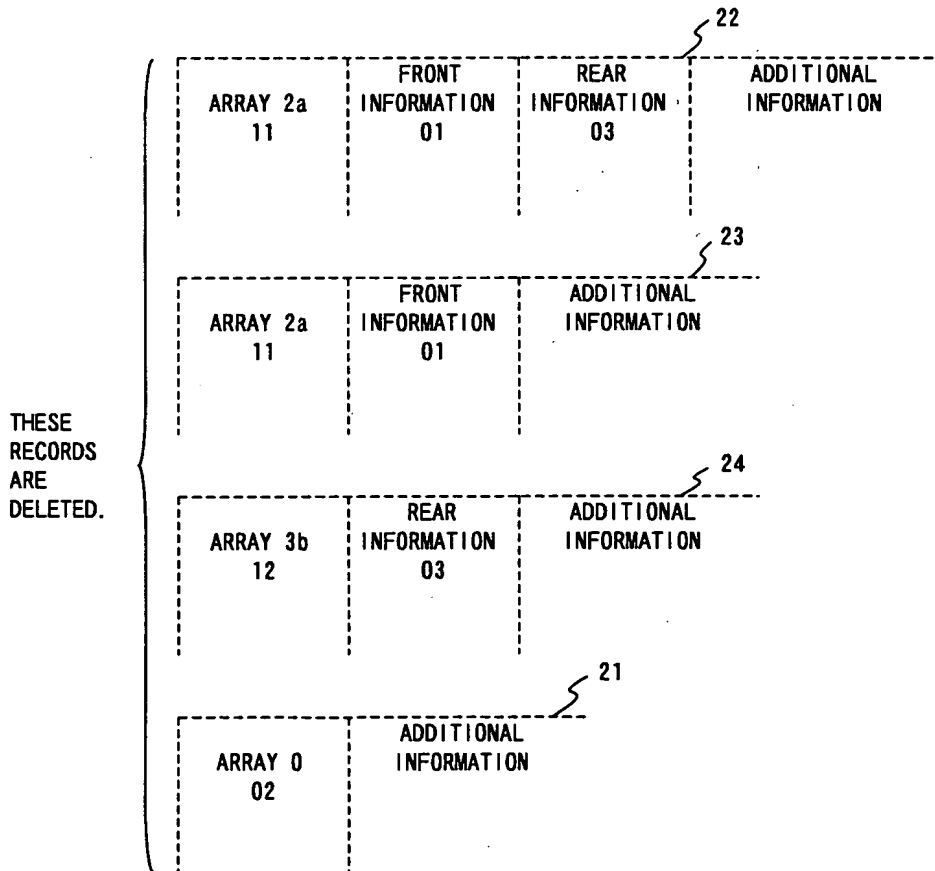


FIG. 11A

ARRAY 1	DISPLAY INFORMATION	POSITION INFORMATION	ADDITIONAL INFORMATION
01	A	101	
03	C	103	

FIG. 11B

ARRAY 2 11	FRONT INFORMATION 01	REAR INFORMATION 03	ADDITIONAL INFORMATION
---------------	----------------------------	---------------------------	---------------------------

FIG. 11C

ARRAY 4	NAME OF DATA	PRECEDING INFORMATION	X-COORDINATE	Y-COORDINATE	ADDITIONAL INFORMATION
101	a		000	000	
103	c	a	001	000	

FIG. 12A

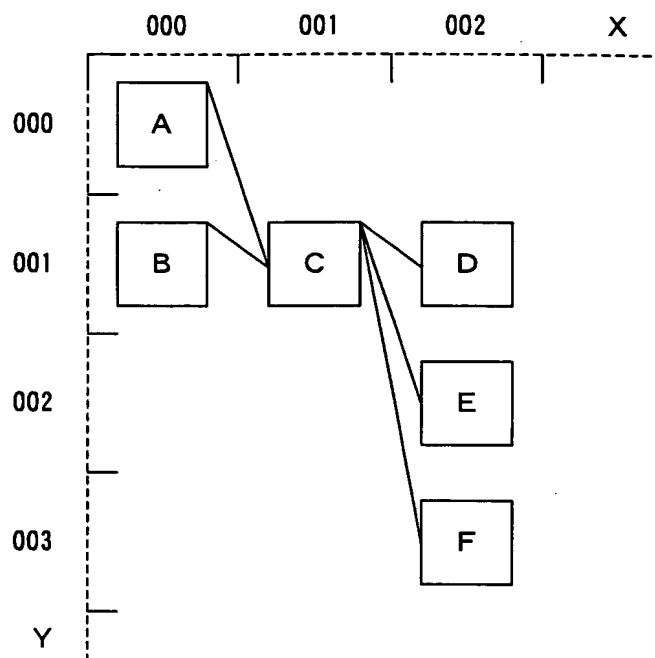


FIG. 12B

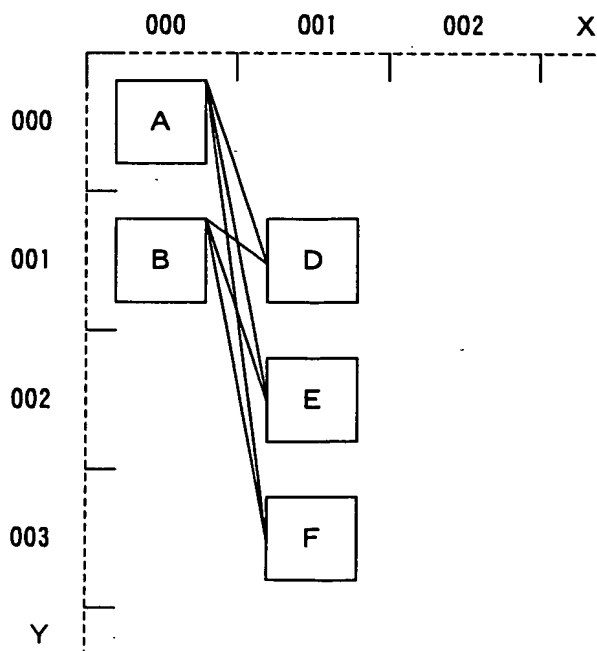


FIG. 13A

11

ARRAY 1	DISPLAY INFORMATION	POSITION INFORMATION	ADDITIONAL INFORMATION
01	A	101	
02	B	102	
03	C	103	
04	D	104	
05	E	105	
06	F	106	

FIG. 13B

12

ARRAY 2	FRONT INFORMATION	REAR INFORMATION	ADDITIONAL INFORMATION
11	01	03	
12	02	03	
13	03	04	
14	03	05	
15	03	06	

FIG. 13C

13

ARRAY 4	NAME OF DATA	PRECEDING INFORMATION	X- COORDINATE	Y- COORDINATE	ADDITIONAL INFORMATION
101	a		000	000	
102	b		000	001	
103	c	a, b	001	001	
104	d	c	002	001	
105	e	c	002	002	
106	f	c	002	003	

FIG. 14A

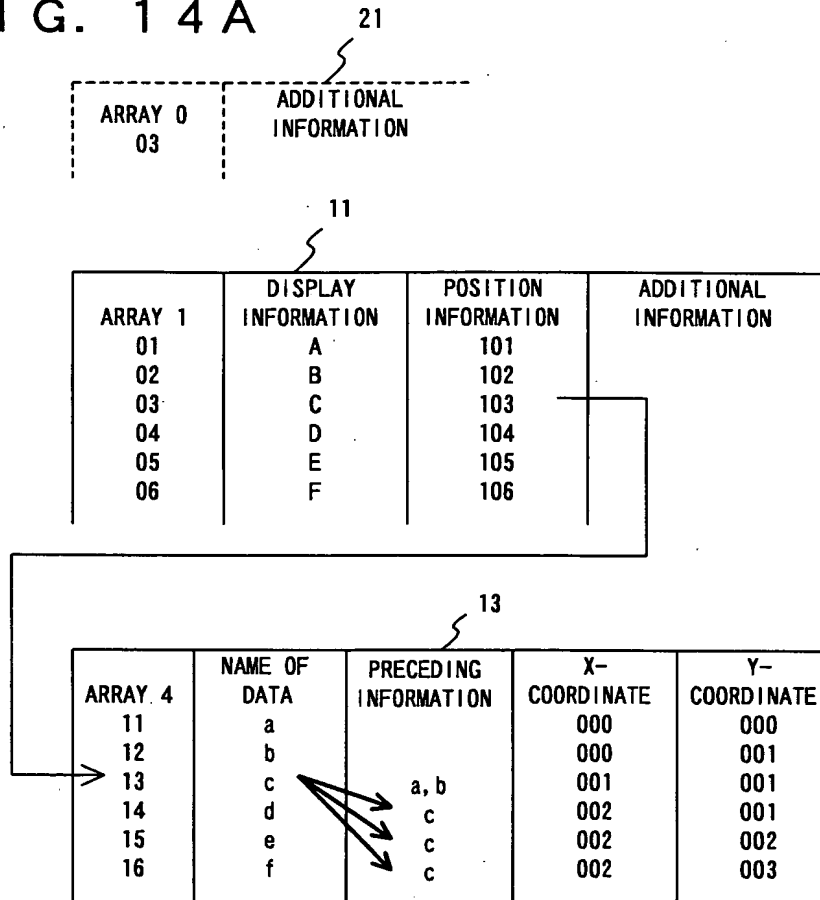


FIG. 14B

13

ARRAY 4	NAME OF DATA	PRECEDING INFORMATION	X- COORDINATE	Y- COORDINATE	ADDITIONAL INFORMATION
101	a		000	000	
102	b		000	001	
103	c	a, b	001	001	
104	d	c → a, b	002 → 001	001	
105	e	c → a, b	002 → 001	002	
106	f	c → a, b	002 → 001	003	

FIG. 15A

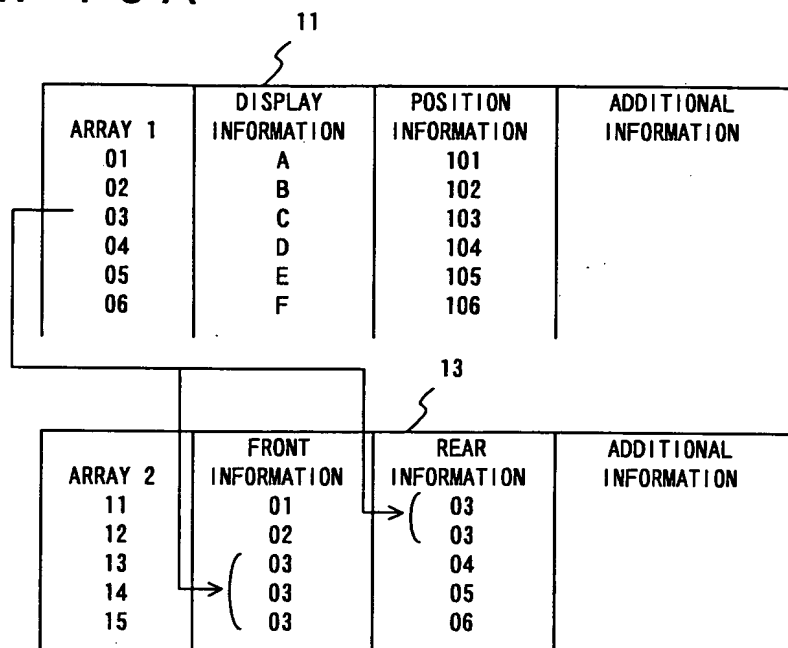


FIG. 15B

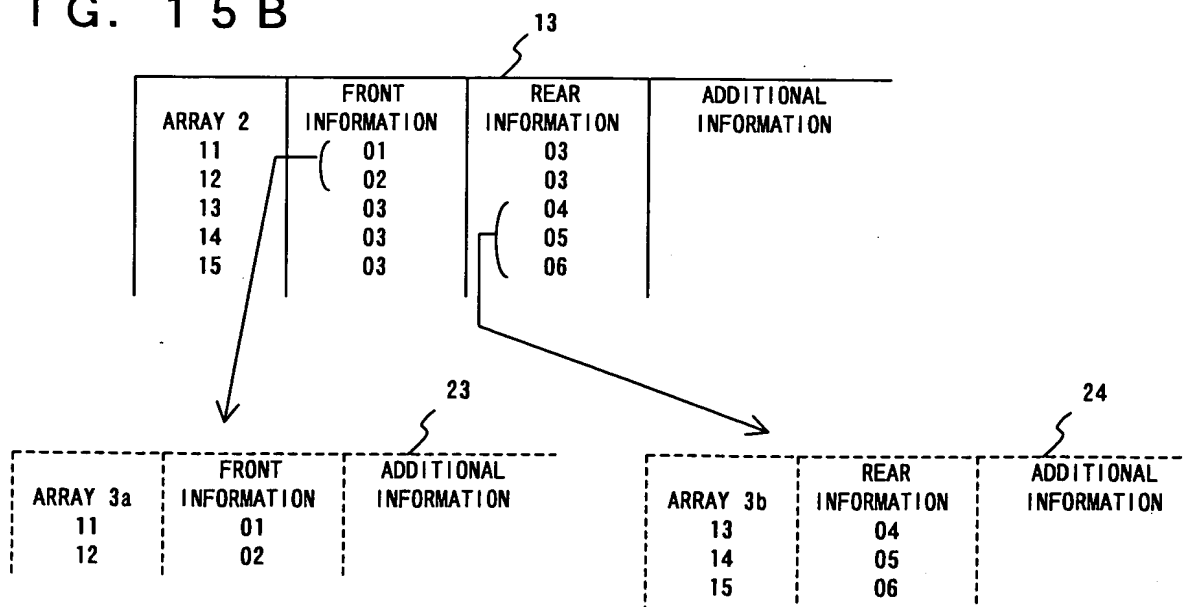


FIG. 16A

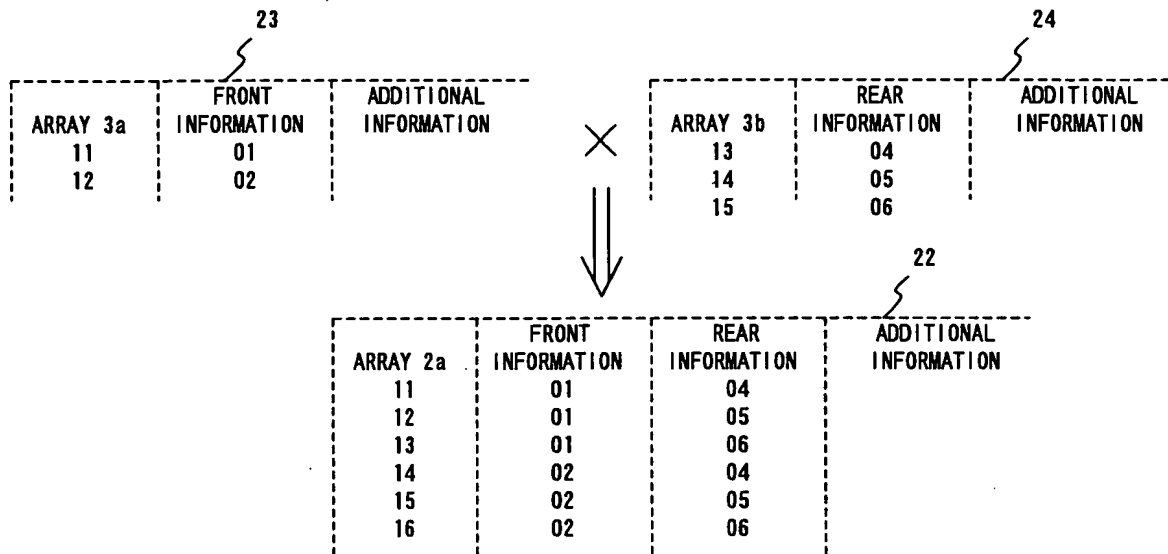
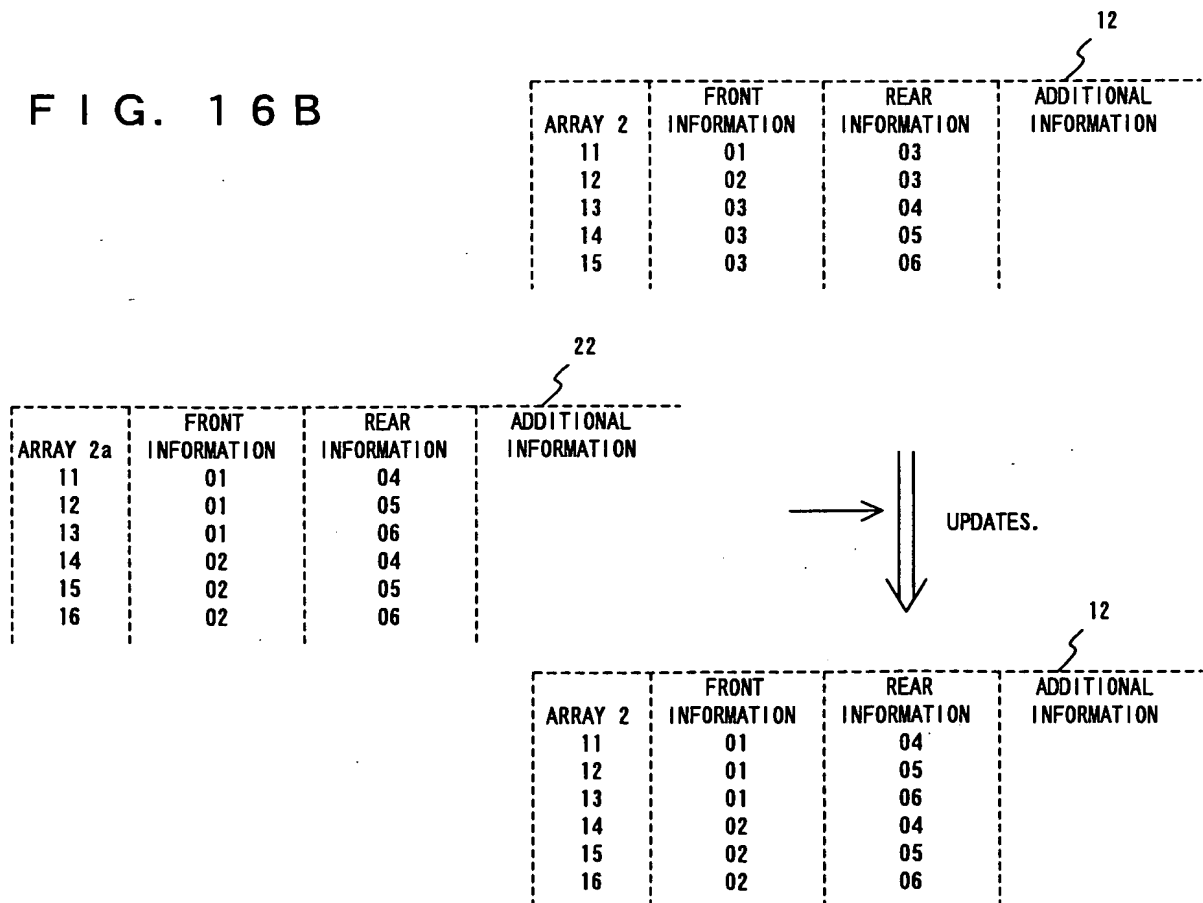


FIG. 16B



THESE
RECORDS
ARE
DELETED.

ARRAY 4	NAME OF DATA	PRECEDING INFORMATION	X-COORDINATE	Y-COORDINATE	ADDITIONAL INFORMATION
101	a	_____	000	000	
102	b	_____	000	001	
103	c	a, b	001	001	
104	d	a, b	001	001	
105	e	a, b	001	002	
106	f	a, b	001	003	

FIG. 17

FIG. 18A

11

ARRAY 1	DISPLAY INFORMATION	POSITION INFORMATION	ADDITIONAL INFORMATION
01	A	101	
02	B	102	
04	D	104	
05	E	105	
06	F	106	

FIG. 18B

12

ARRAY 2	FRONT INFORMATION	REAR INFORMATION	ADDITIONAL INFORMATION
11	01	04	
12	01	05	
13	01	06	
14	02	04	
15	02	05	
16	02	06	

FIG. 18C

13

ARRAY 4	NAME OF DATA	PRECEDING INFORMATION	X-COORDINATE	Y-COORDINATE	ADDITIONAL INFORMATION
101	a	—	000	000	
102	b	—	000	001	
104	d	a, b	001	001	
105	e	a, b	001	002	
106	f	a, b	001	003	

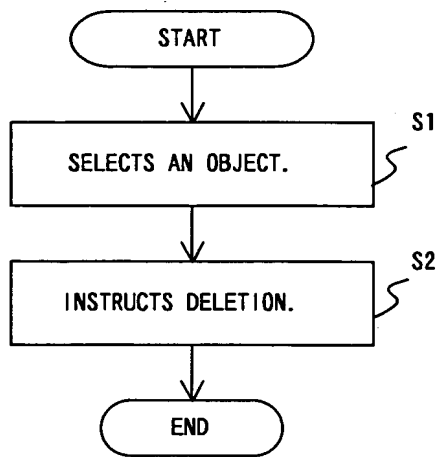


FIG. 19

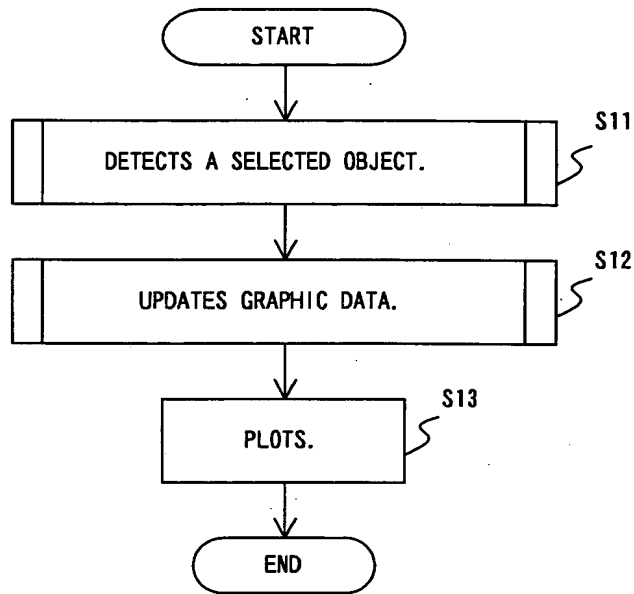


FIG. 20

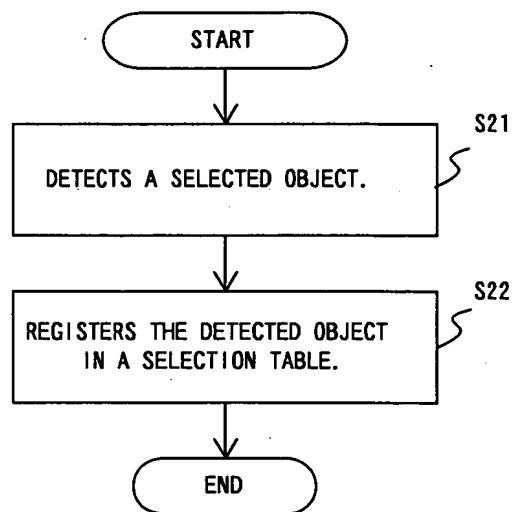


FIG. 21

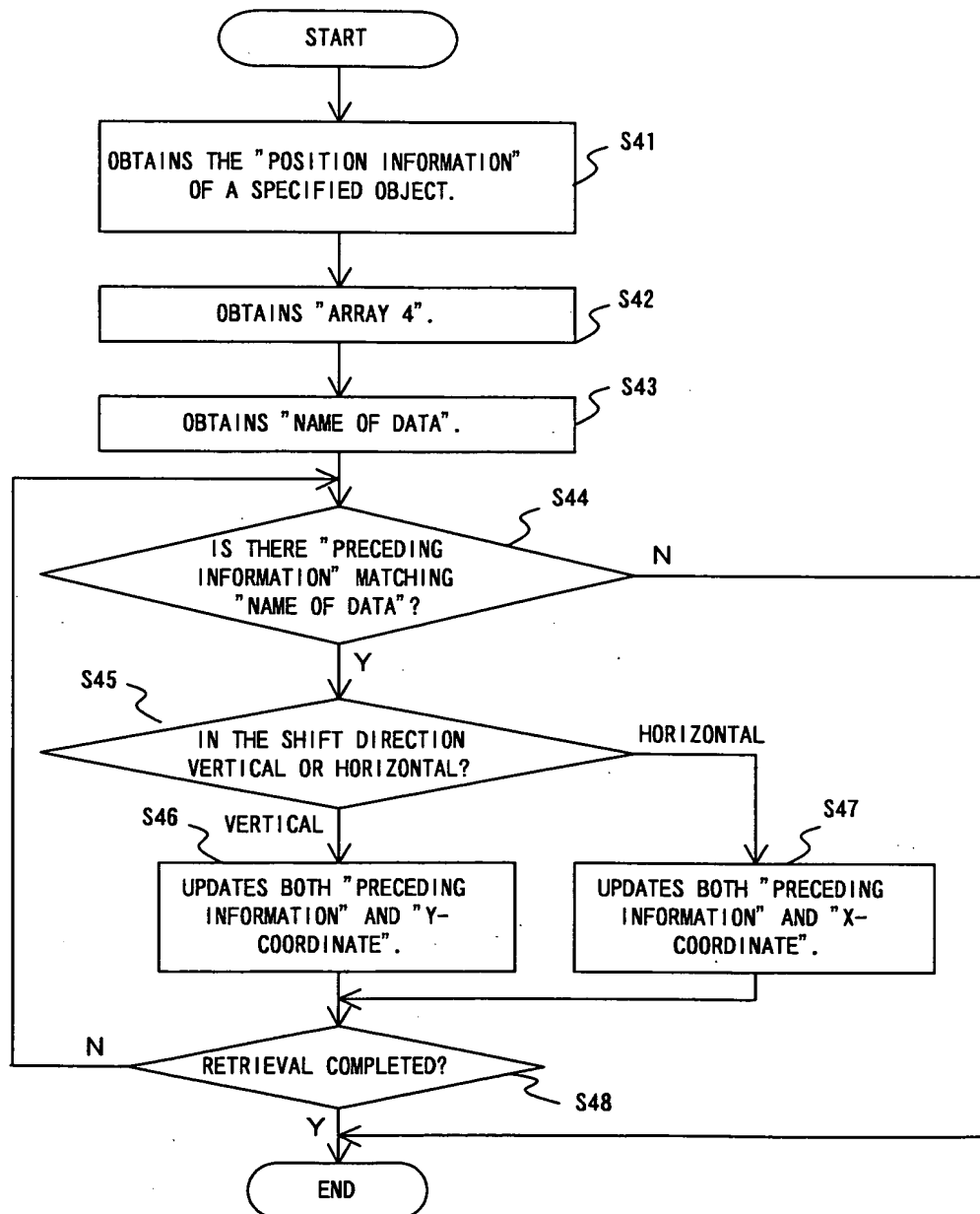


FIG. 23

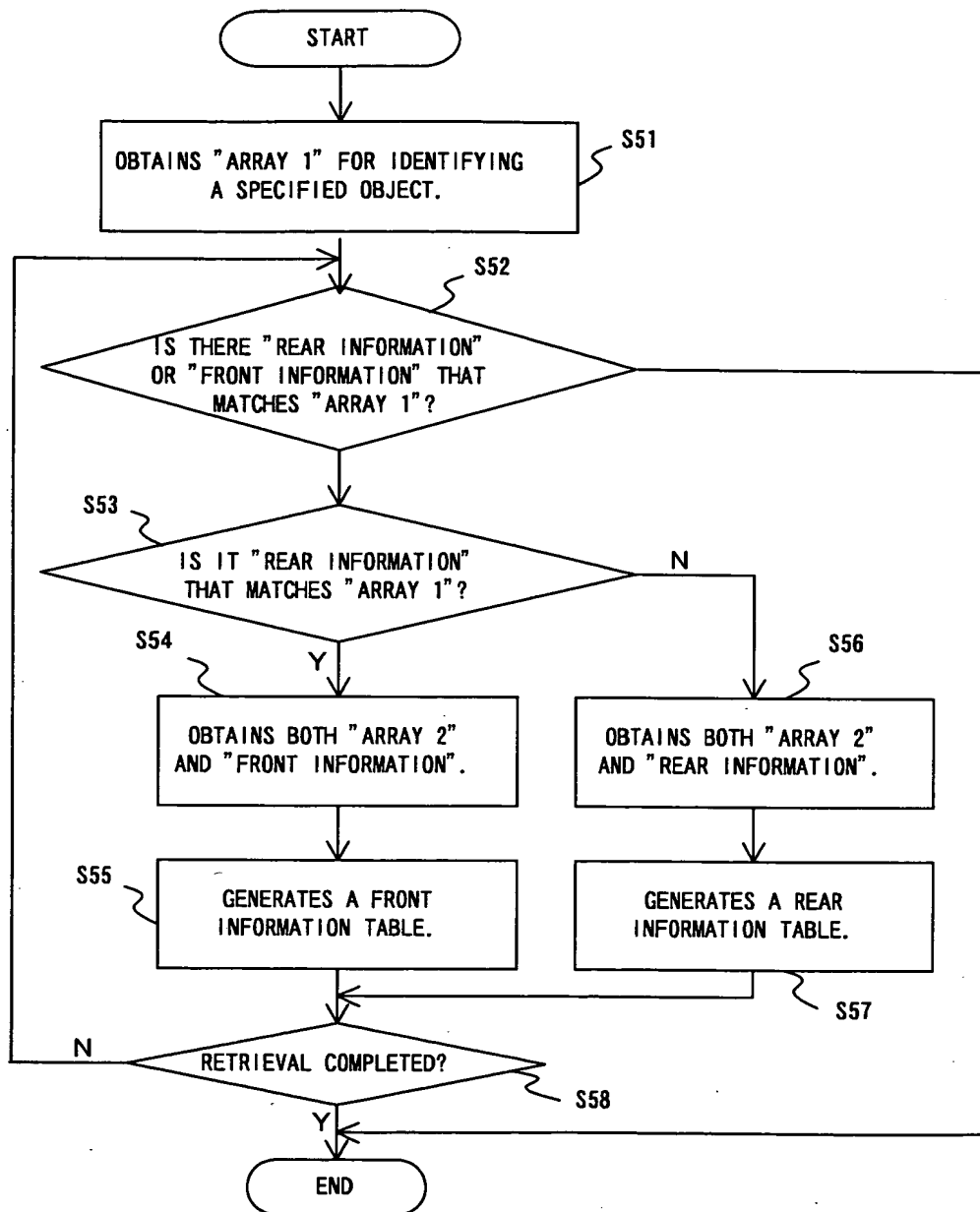


FIG. 24

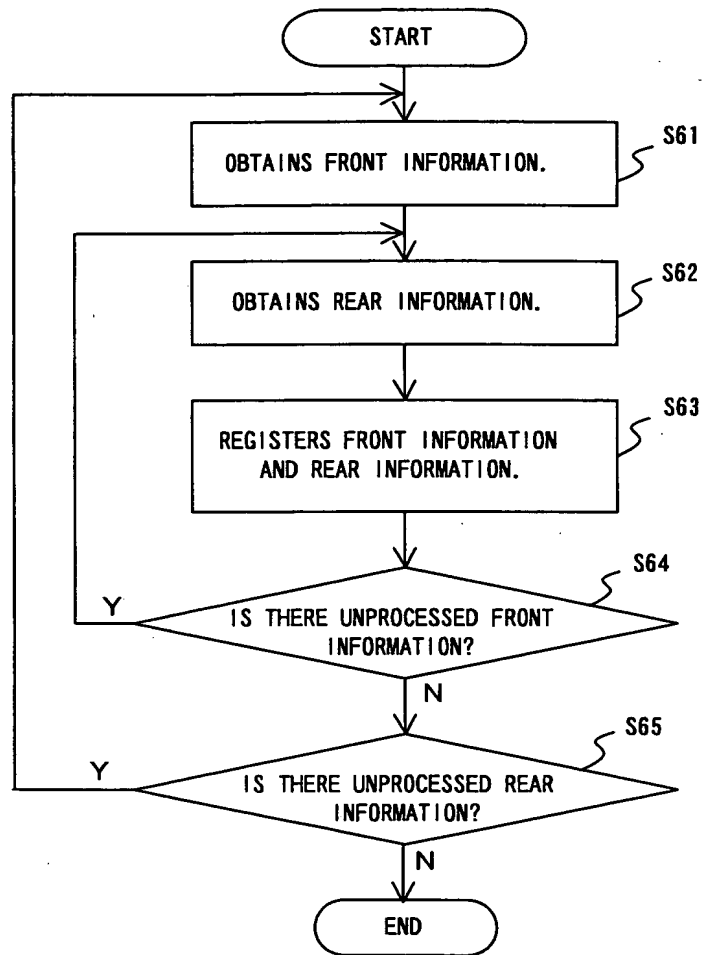


FIG. 25

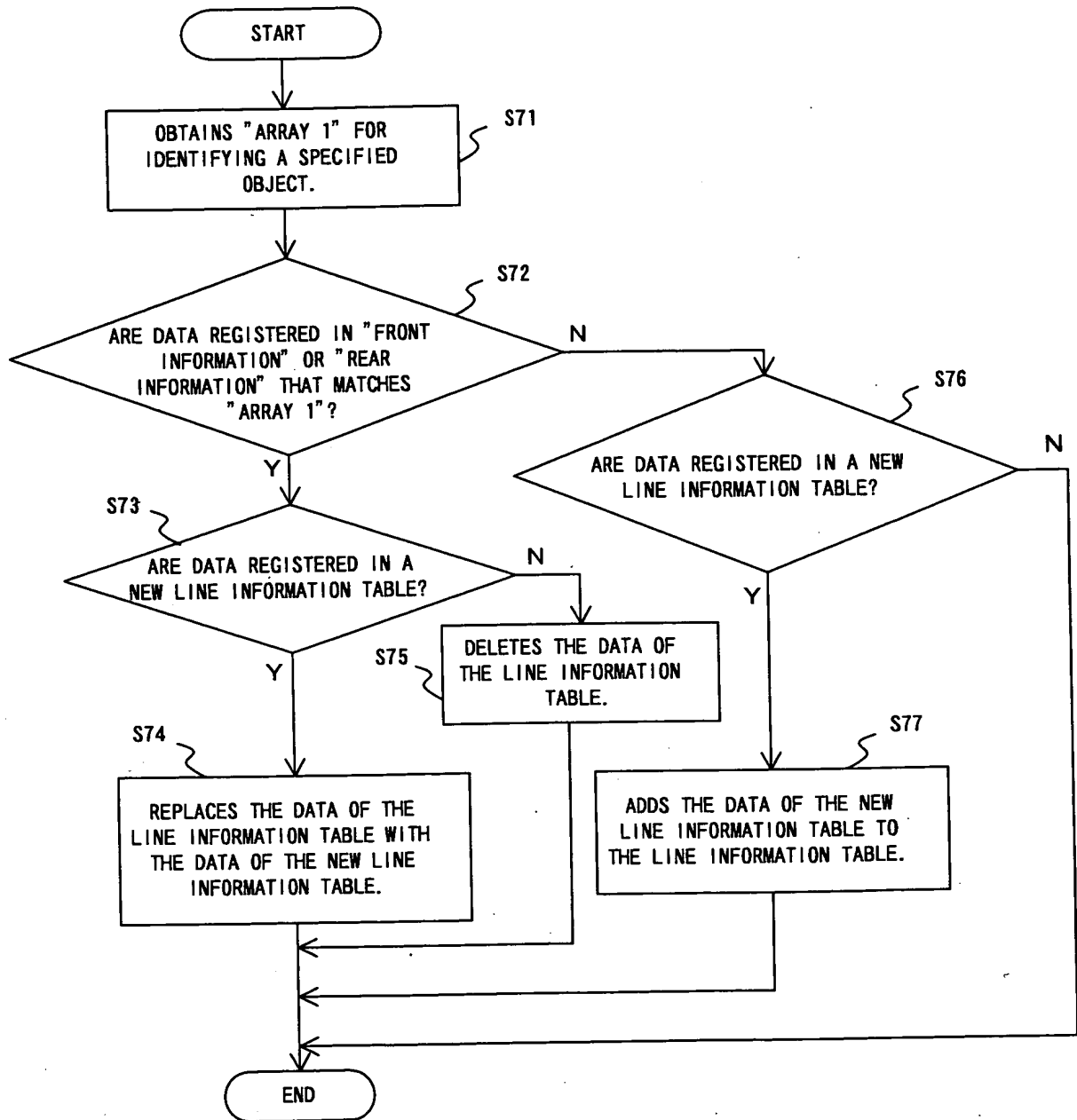


FIG. 26

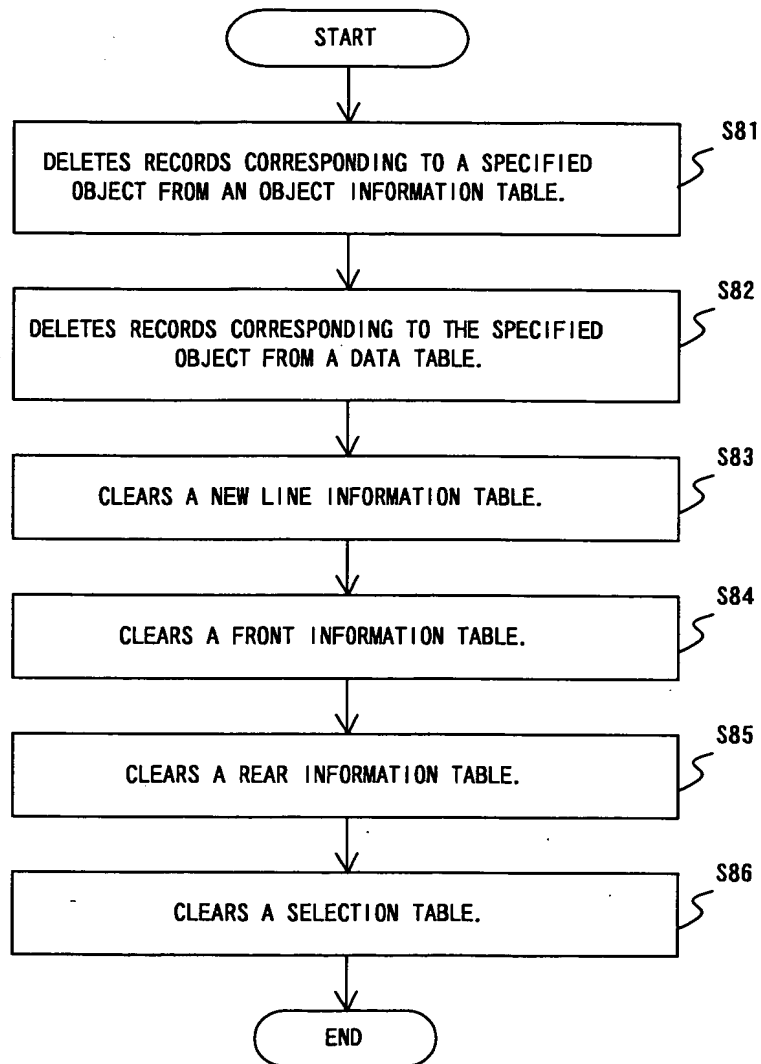


FIG. 27

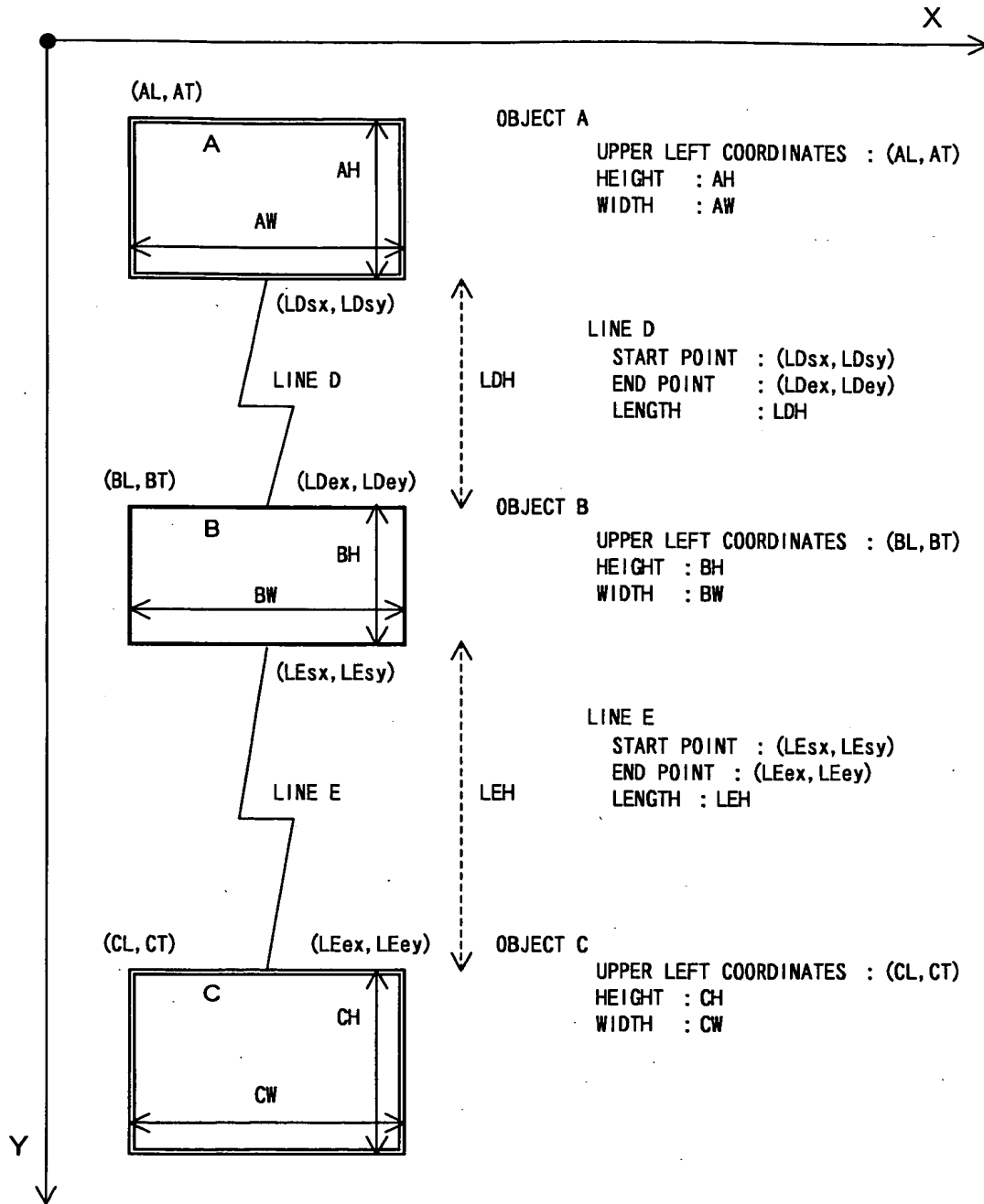


FIG. 28

```

graph TD
    START([START]) --> S91[TERMINES A LINE TO BE DELETED.]
    S91 --> S92[UPDATES THE POSITION INFORMATION OF A LINE.]
    S92 --> S93[UPDATES THE POSITION INFORMATION OF AN OBJECT.]
    S93 --> S94[PLOTS]
    S94 --> END([END])

```

```

graph TD
    START([START]) --> S91[TERMINES A LINE TO BE DELETED.]
    S91 --> S92[UPDATES THE POSITION INFORMATION OF A LINE.]
    S92 --> S93[UPDATES THE POSITION INFORMATION OF AN OBJECT.]
    S93 --> S94[PLOTS]
    S94 --> END([END])

```

FIG. 30A

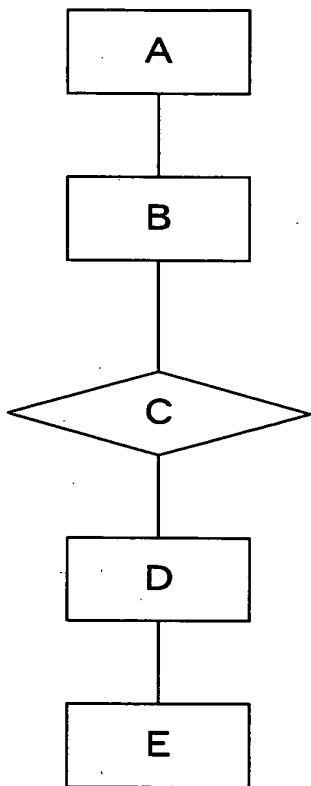


FIG. 30B

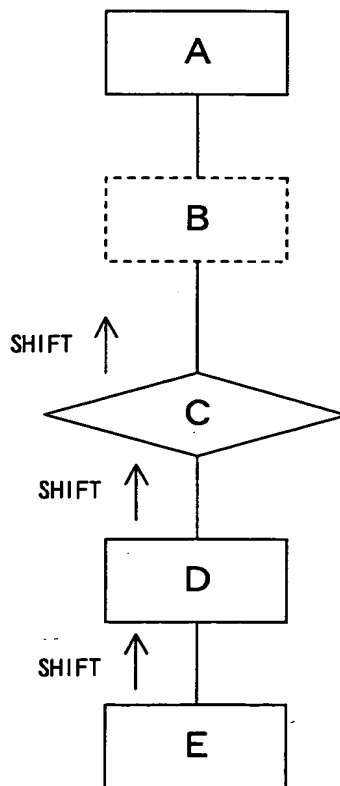


FIG. 30C

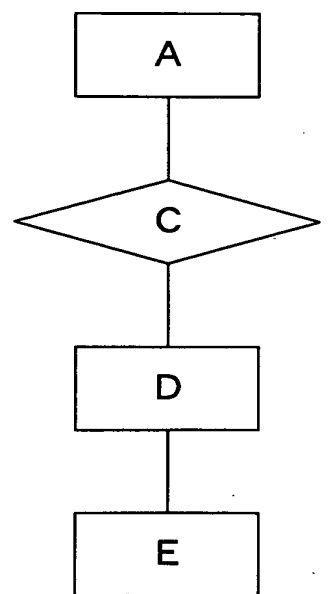


FIG. 31 A

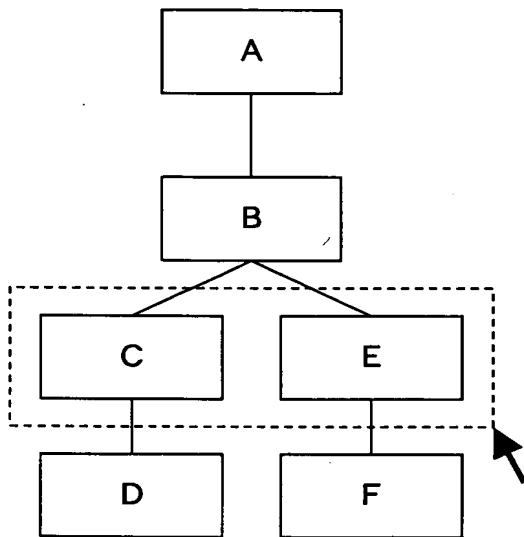


FIG. 31 B

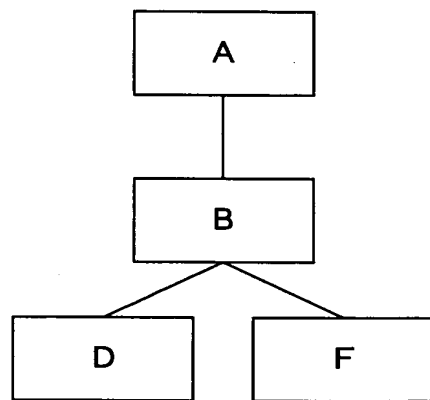


FIG. 32A

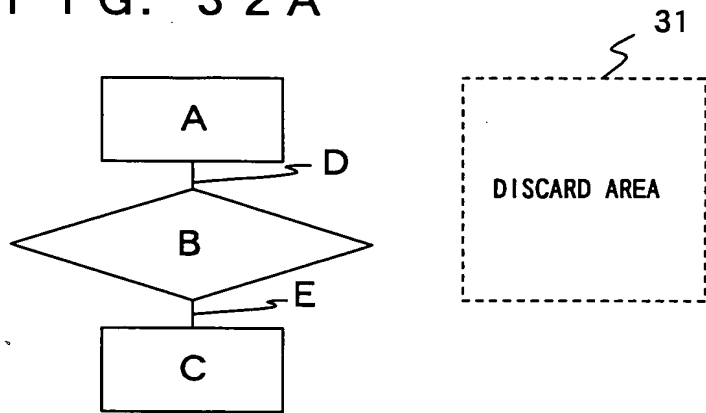


FIG. 32B

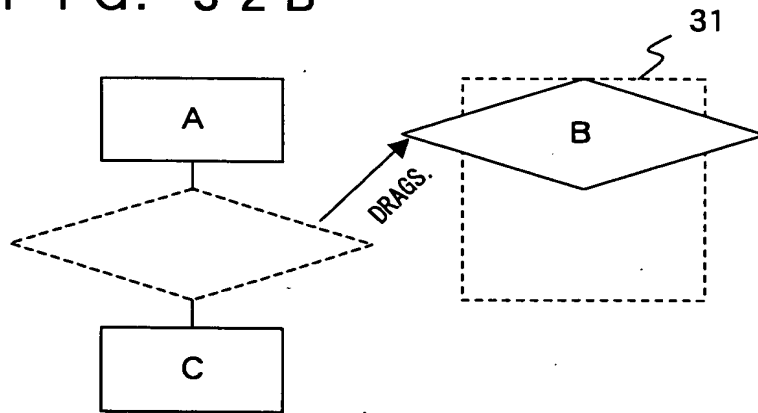


FIG. 32C

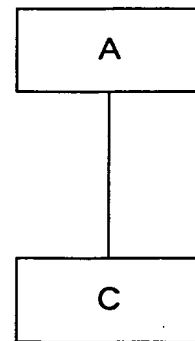
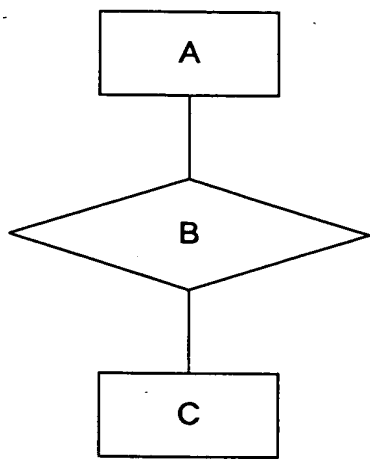
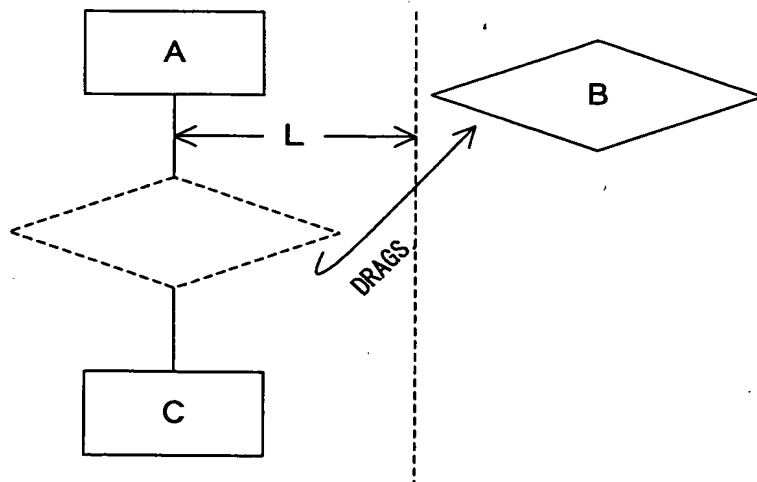


FIG. 34A



F I G. 3 4 B



F I G. 3 4 C

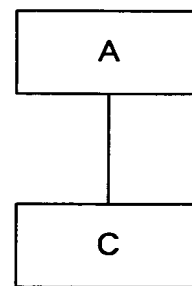


FIG. 35A

INDEX	NAME OF OBJECT	COORDINATES	SHAPE	HEIGHT	WIDTH	-----
1	A	(Ax, Ay)	RECTANGLE	AH	AW	
2	B	(Bx, By)	DIAMOND	BH	BW	
3	C	(Cx, Cy)	RECTANGLE	CH	CW	

FIG. 35B

INDEX	NAME OF LINE	FRONT INFORMATION	START POINT COORDINATES	REAR INFORMATION	END POINT COORDINATES	HEIGHT
1	D	A	(Dsx, Dsy)	B → C	(Dex, Dey)	DH
2	E	B	(Esx, Esy)	C	(Eex, Eey)	EH

↑

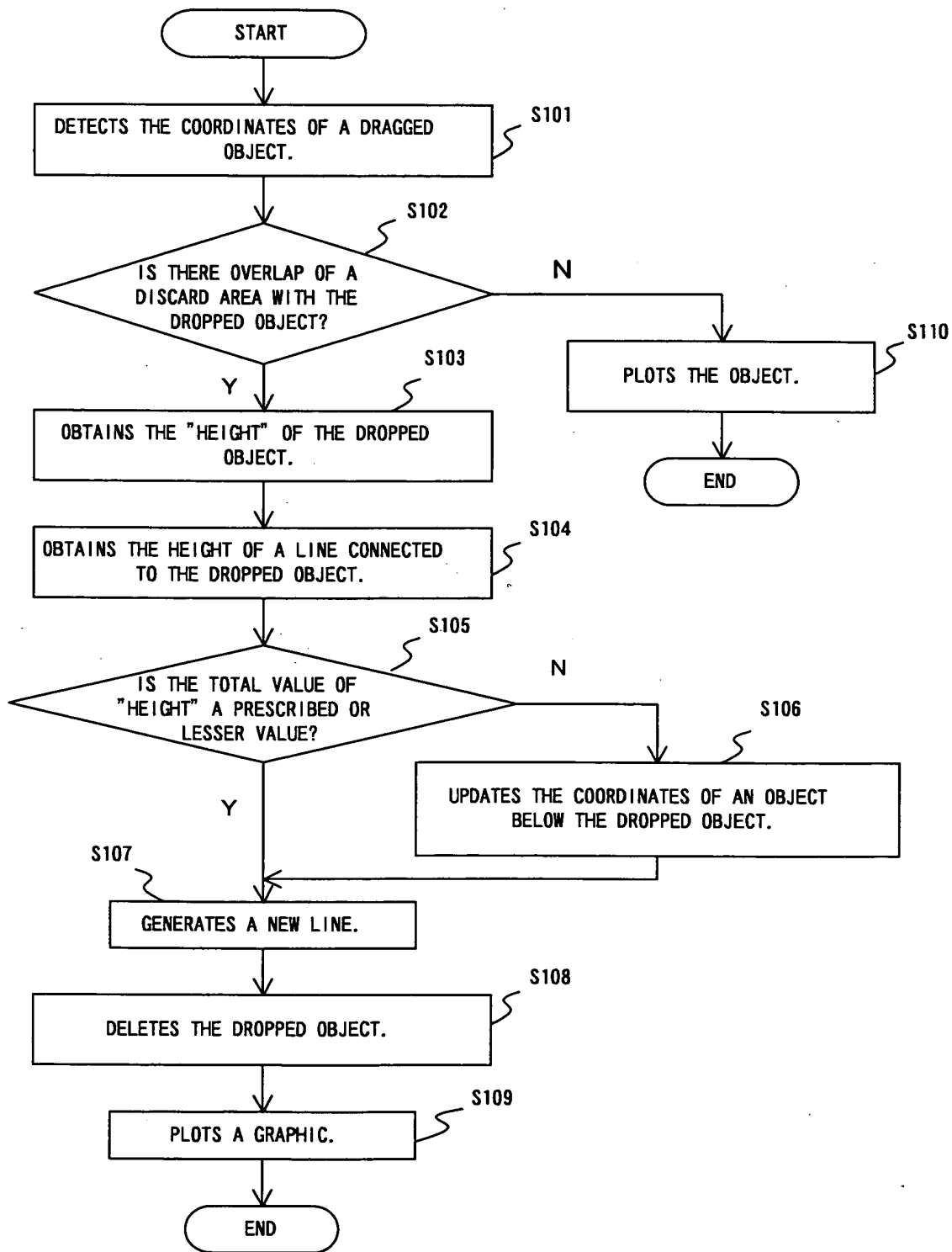


FIG. 36

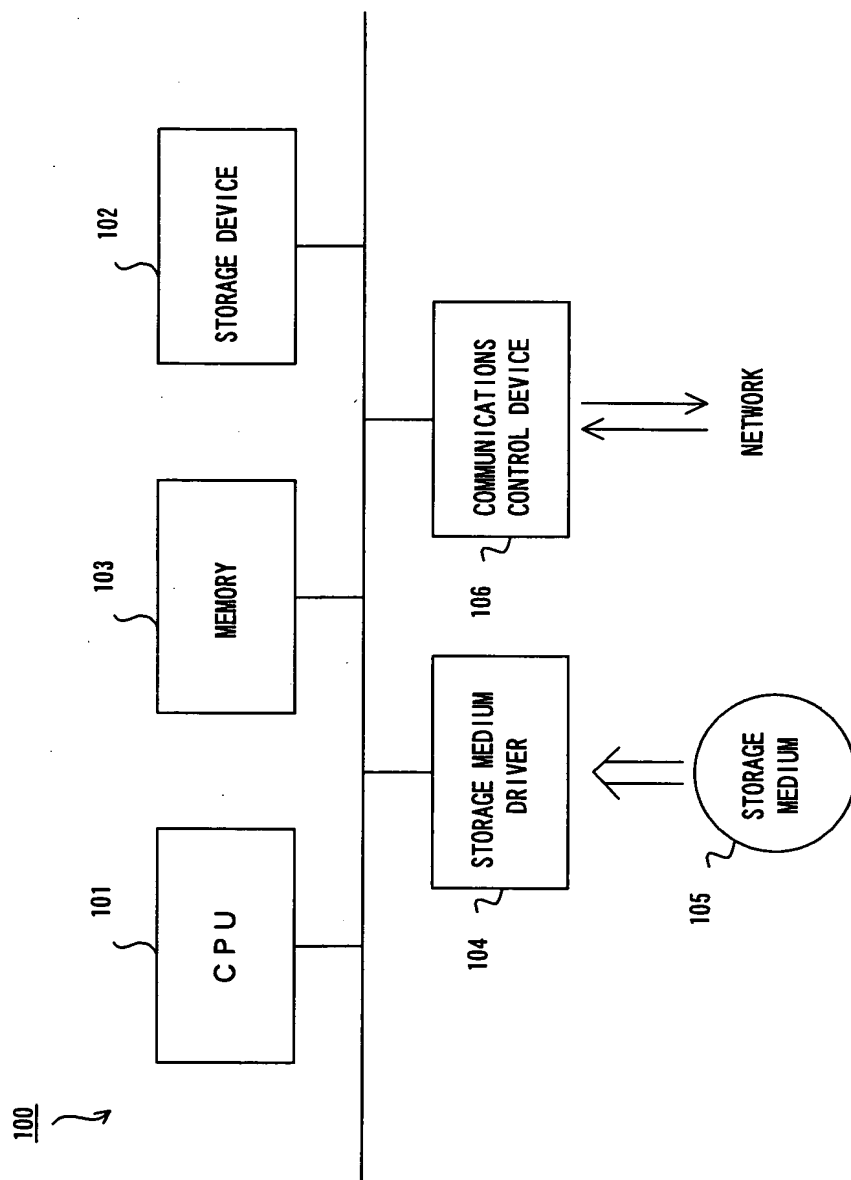


FIG. 37

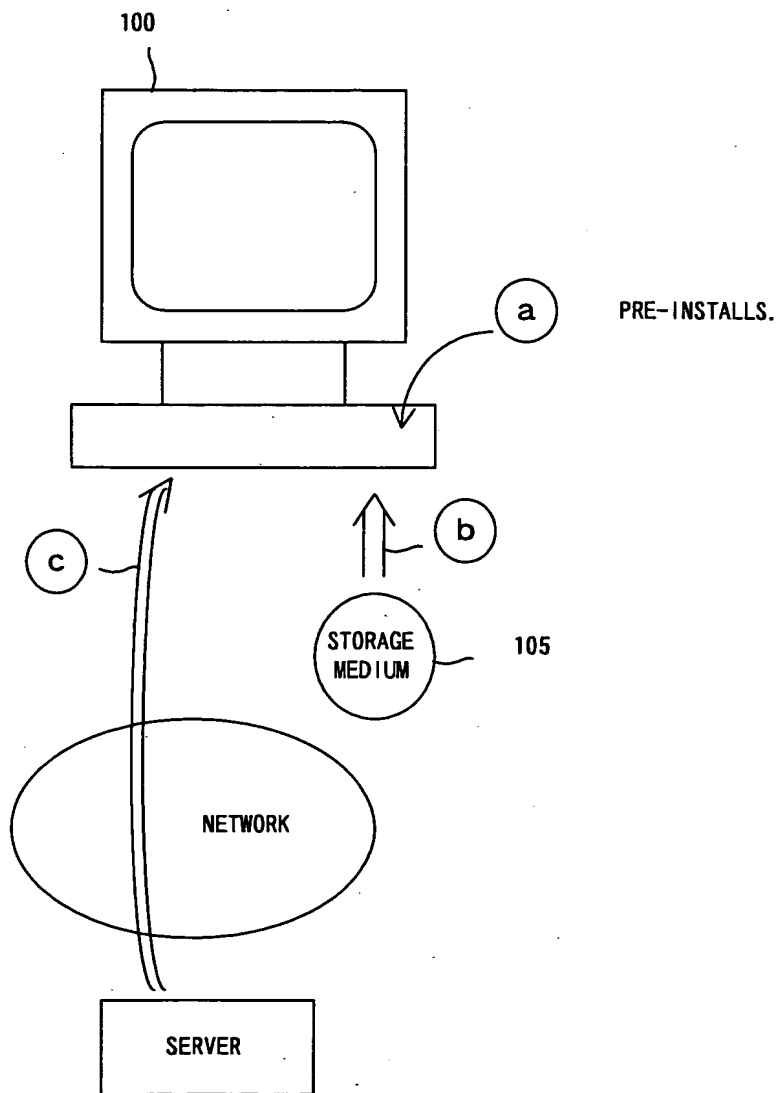


FIG. 38